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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. UTILITY **PATENT APPLICATION** TRANSMITTAL

(Only for new nonprovisional applications under 37 C.F.R. 1.53(b))

Attorney Docket No.		9351-88	=	
First Inv	entor	MAZZA	o C	
Title	METHOD AND APPAR HYDROGEN GENERA	RATUS FOR BY-PRODUCT REMOVAL IN A ATION SYSTEM	ב	

U.S Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Assistant Commissioner for Patents **APPLICATION ELEMENTS** ADDRESS TO: Box Patent Application See MPEP chapter 600 concerning utility patent application contents. Washington, DC 20231 1. Fee Transmittal Form (e.g., PTO/SB/17) 7. CD-ROM or CD-R in duplicate, large table or (Submit an original and a duplicate for fee processing) Computer Program (Appendix) 2. Applicant claims small entity status. 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) See 37 CFR 1.27. з. 🛛 a. Computer Readable Form (CRF) Total Pages 22 Specification (preferred arrangement set forth below) Specification Sequence Listing on: - Descriptive title of the Invention i. ☐ CD-ROM or CD-R (2 copies); or - Cross Reference to Related Applications ii. D paper - Statement Regarding Fed sponsored R & D c. Statements verifying identity of above copies - Reference to sequence listing, a table, or a computer program listing appendix **ACCOMPANYING APPLICATIONS PARTS** - Background of the Invention - Brief Summary of the Invention 9. 🔲 Assignment Papers (cover sheet & document(s)) - Brief Description of the Drawings ( if filed) 10. 37 C.F.R.§3.73(b) Statemen Power of - Detailed Description (when there is an assignee) Attorney Claim(s) - Abstract of the Disclosure 11. English Translation Document (if applicable) 12. 4. Information Disclosure Drawing(s) (35 U.S.C.113) [Total Sheets 1 Copies of IDS Statement (IDS)/PTO-5. Oath or Declaration [Total Pages Citations 1449 a. Newly executed (original or copy) 13. 🔲 **Preliminary Amendment** b. Copy from a prior application (37 CFR 1.63 (d)) 14. 🛛 Return Receipt Postcard (MPEP 503) (for a continuation/divisional with Box 18 completed) (Should be specifically itemized) i, DELETION OF INVENTOR(S) 15. 🔲 Certified Copy of Priority Document(s) Signed statement attached deleting inventor(s) (if foreign priority is claimed) named in the prior application, see 37 CFR 16. 🔲 Nonpublication Request under 35 U.S.C. 122 1.63(d)(2) and 1.33(b). (b)(2)(B)(i). Applicant must attach form PTO/SB/35 6. Application Data Sheet. See 37 CFR 1.76 or its equivalent. 17. Other: 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: ☐ Continuation □ Divisional ☐ Continuation-in-part (CIP) of prior application No: \_\_\_\_\_ Prior application information: Group / Art Unit Examiner For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied

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under Box 5b, is considered a part of the disclosure of the accompanying or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion the accompanying or divisional application and is hereby incorporated by reference. HADDRESS or  $\square$ Correspondence address below Customer Number or Bar Code Label Name Address City Zip Code State Telephone Fax Country

Registration No. (Attorney/Agent)

31,969

December 20, 2001

Date

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Name (Print/Type)

Signature

H. Samuel Frøst

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PTO/SB/17 (11-01)
Approved for use through 10/31/2002. OMB 0651-0032
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Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

**TOTAL AMOUNT OF PAYMENT** (\$)

Complete if Known					
Application Number	n/a				
Filing Date	n/a				
First Named Inventor	MAZZA et al				
Examiner Name	N/A				
Group Art Unit	n/a				
Attorney Docket No.	9351-88				

Check   Credit card   Money Order   None Order   Other   Other Order   Other Order   Other Order   Other Order   Other   Other Order   Other Order   Other Order   Other Order   Other   Other Order   Other	METHOD OF PAYMENT (check all that apply)					FEE CALCULATION (continued)						
Deposit	Check	Check Credit card Money Other None				3. ADDITIONAL FEES						
Deposit	☐ Denosit	Account:	Order —	_	Large	Entity	Sma	II Entit	<u>y</u>			
Number   Deposit   Account   Name   Deposit   Account   Deposit   Account   Deposit   Account   Deposit   Account   Deposit   Account   Deposit   De	Deposit	riodounii.	022095						Fee Description	Fee Paid		
Account Name   Sereskin & Part	Number				105	130	205	65	Surcharge - late filing fee or oath			
Charge fee(s) indicated below	Account	Ве	reskin & Pa	ırr	127	50	227	25				
Charge any additional fee(s) during the pendency of this application   147 2,520   147 2			<del>()</del>	,	139	130	139	130	Non-English specification			
Charge fee(s) indicated below, except for the filing fee   112   920°   113   1,840°   131   1	= `	. ,	<del></del>		147	2,520	147	2,520	For filing a request for ex parte reexamination			
The above identified deposit account.   The above identified account	<b>≓</b> ''	•	, , ,	, ,		920*	112	920*	Requesting publication of SIR prior to			
The content of the	_ `	. ,	•	riling tee								
1. BASIC FILING FEE   Large Entity   Small Entity   Fee	to the aboveio				113	1,840*	113	1,840*				
Larce Entity   Small Entity   Fee	4 DARICE		ALGGLATION		115	110	215	55	Extension for reply within first month			
Fee					116	400	216	200	Extension for reply within second month			
110   740   201   370   Utility filing fee   128   1,960   1,960   1	Fee Fee	Fee Fee	Fee Description	Eoo Daid	117	920	217	460	Extension for reply within third month			
106 330   206 165   Design filing fee   119 320   228 980   Extension for reply within fifth month   119 320   129 160   Notice of Appeal   119 320   129 160   Notice of Appeal   120 320   120 320   120 160   Feiling a brief in support of an appeal   120 320   120 180   138 1,510   138 1,510   Petition to revive - unavoidable   120 320   120 180   138 1,510   Petition to revive - unavoidable   120 320   120 180   Petition to revive - unavoidable   120 320   120 180   Petition to revive - unavoidable   120 320   120 180   Petition to revive - unavoidable   120 320   120 180   Petition to revive - unavoidable   120 320   120 180   Petition to revive - unavoidable   120 320   Petition to	• • • •	• •	Litulator fillanca fee	ree raiu	118	1,440	218	720	Extension for reply within fourth month			
107   510   207   255   Plant filing fee   119   320   219   160   Notice of Appeal   120   320   120   320   120   320   121   120   12			, ,		128	1,960	228	980	Extension for reply within fifth month			
108 740   208 370   Reissue filing fee			• •		119	320	219	160	Notice of Appeal			
SUBTOTAL (1)   SUBTOTAL (2)   SUBT			-		120	320	220	160	Filing a brief in support of an appeal			
SUBTOTAL (1) (\$) 0.00  2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE Extra Claims below Fee Paid below Fee Paid independent  Claims Multiple Dependent  Large Entity Small Entity Fee Fee Code (\$) Code (\$)  102 84 202 42 Independent claims in excess of 20 and over original patent  104 18 210 9 ** Reissue claims in excess of 20 and over original patent  SUBTOTAL (2)  140 110 240 55 Petition to revive - unavoidable  141 1,280 241 640 Petition to revive - unintentional  142 1,280 242 640 Utility issue fee (or reissue)  143 460 243 230 Design issue fee  144 620 244 310 Plant issue fee  122 130 Petitions to the Commissioner  123 50 123 50 Processing fee under 37 CFR 1.17(q)  126 180 126 180 Submission of Information Disclosure Stmt  127 50 128 50 Processing fee under 37 CFR 1.17(q)  128 180 203 9 Claims in excess of 20 146 740 581 40 Recording each patent assignment per property (times number of properties)  146 740 246 370 Filing a submission after final rejection (37 CFR § 1.129(a))  149 740 249 370 For each additional invention to be examined (37 CFR § 1.129(b))  149 740 279 370 Request for Continued Examination of a design application  149 900 169 900 Request for expedited examination of a design application			•	ee	121	280	221	140	Request for oral hearing			
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE Fee from Fee Paid Independent  Claims  Outline  Total Claims  Outline  Total Claims  Outline  Independent  Claims  Outline  Independent  Outline  Independent  Outline  Independent  Outline  Outline  Independent	· I		<u>.</u>	(0)	138	1,510	138	1,510	Petition to institute a public use proceeding			
Total Claims	SUBTOTAL (1) (\$) 0.00			140	110	240	55	Petition to revive - unavoidable				
Total Claims	2. EXTRA (	CLAIM FEE			141	1,280	241	640	Petition to revive - unintentional			
Independent Claims  Multiple Dependent  Large Entity   Small Entity   Fee   Fee   Code (\$)    102   84   202   42   140    104   280   204   140    Multiple dependent claims over original patent    109   84   209   42   *** Reissue independent claims over original patent    100   18   210   9   *** Reissue claims in excess of 20 and over original patent    SUBTOTAL (2)   (\$)   0.00    144   620   244   310   Plant issue fee    122   130   122   130   Petitions to the Commissioner    122   130   122   130   Petitions to the Commissioner    122   130   122   130   Petitions to the Commissioner    123   50   723   50   Processing fee under 37 CFR 1.17(q)    126   180   Submission of Information Disclosure Stmt    126   180   Submission after final rejection (37 CFR § 1 129(a))    127   370   For each additional invention to be examined (37 CFR § 1.129(b))    128   370   For each additional invention to be examined (37 CFR § 1.129(b))    129   370   For each additional invention (RCE)    129   370   Request for Continued Examination (RCE)    129   370   Request for continued Examination of a design application    129   370   Request for expedited examination of a design application    120   30   24   310   24   310    121   30   22   32   30    122   30   Petitions to the Commissioner    120   30   Submission of Information Disclosure Stmt    120   180   32   33    120   30   76   76   81   129(a)    120   370   76   81   129(a)    120   370   76   81   129(a)    121   30   24   310   24   310    122   30   24   310    122   30   24   310    123   50   76   81   24    124   310   24   310    125   30   24   310    126   180   Submission of Information Disclosure Stmt    120   370   Filing a submission after final rejection (37 CFR § 1.129(a))    120   370   76   76   81    120   370   76   76   81    120   370   76   76   81    120   370   76   76				elow Fee Paid	142	1,280	242	640	Utility issue fee (or reissue)			
Claims  Multiple Dependent  Large Entity   Small Entity   Fee   Fee   Code (\$)    122   130   123   50   Processing fee under 37 CFR 1.17(q)    123   50   123   50   Processing fee under 37 CFR 1.17(q)    126   180   Submission of Information Disclosure Stmt    126   180   Submission of Information Disclosure Stmt    127   128   129   129   129   129    128   129   129   129   129   129    129   120   120   120   120   120    120   120   120   120   120    121   122   130   Petitions to the Commissioner    122   130   Petitions to the Commissioner    123   50   Processing fee under 37 CFR 1.17(q)    126   180   Submission of Information Disclosure Stmt    126   180   Submission of Information Disclosure Stmt    127   128   129   Recording each patent assignment per property (times number of properties)    128   129   129   129   129   129    129   370   Freint Issue lee  120   120   120   120    120   120   120   120    121   120   120   120    122   130   Petitions to the Commissioner    123   50   Processing fee under 37 CFR 1.17(q)    124   126   180   Submission of Information Disclosure Stmt    126   180   Submission of Information Disclosure Stmt    127   128   130   123   130    128   129   129   129   129   129    129   370   Freint Issue lee  120   120   120   120   120   120    120   120   120   120   120   120    121   120   130   122   130   122   130    122   130   123   120   120   120    123   120   120   120   120   120    123   120   120   120   120   120    123   120   120   120   120   120    123   120   120   120   120   120   120    123   120   120   120   120   120   120    123   120   120   120   120   120   120    123   120   120   120   120   120   120    124   120   120   120   120   120   120    124   126   180   Submission of Information Disclosure Stmt    126   180   120   120   120   120   120   120    123   120   120   120   120   120   120   120    123   120   120   120   120   120   120   120    124   125   130   123   120   120   120   120   120    125   120   120   120   120	Total Claims	34 - 20	** = <u>14</u> X	= 0 00	143	460	243	230	Design issue fee			
Large Entity   Small Entity   Fee   Fee   Fee   Code (\$)   Fee Description   123   50   123   50   Processing fee under 37 CFR 1.17(q)   126   180   126   180   Submission of Information Disclosure Stmt   581   40   581   40   681   40   40   681   40   681   40   681   40   681   40   681   40   681   40   681   40   681   40   681   40   681   40   681   40   681   40   681   40   681   40   681   40   681   40   681   40		2 - 3'	'' = L × <u> </u>	= 0.00	144	620	244	310	Plant issue fee			
Large Entity   Small Entity   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Code (\$)    103   18   203   9   Claims in excess of 20    102   84   202   42   Independent claims in excess of 3    104   280   204   140   Multiple dependent claims in excess of 3    109   84   209   42   ** Reissue independent claims over original patent    110   18   210   9   ** Reissue claims in excess of 20    110   10   10   10   10   10   10	Multiple Deper	ndent		=	122	130	122	130	Petitions to the Commissioner			
Fee Code (\$)  Fee Code (\$)  Code (\$)					123	50	123	50	Processing fee under 37 CFR 1.17(q)			
Code (\$)  Code (				n	126	180	126	180	Submission of Information Disclosure Stmt			
104   280   204   140   Multiple dependent claim, if not paid   149   740   249   370   For each additional invention to be examined (37 CFR § 1.129(b))   179   740   179   740   179	Code (\$)	Code (\$)		_	581	40	581	40				
109 84 209 42 ** Reissue independent claims over original patent solution of a design application of a design application of a design application (\$\$) 0.00		202 42	Independent clain	ns in excess of 3	146	740	246	370				
109 84 209 42 **Reissue independent claims over original patent over original patent 110 18 210 9 **Reissue claims in excess of 20 and over original patent 169 900 Request for Continued Examination (RCE) 169 900 Request for expedited examination of a design application 169 900 Other fee (specify)	104 280	204 140	Multiple depender	nt claim, if not paid					` <del>'</del> '"			
and over original patent  169 900 Request for expedited examination of a design application  SUBTOTAL (2) (\$) 0.00  Other fee (specify)	109 84	209 42			149	740	249	370				
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**or number previously paid, if greater; For Reissues, see above	SUBTOTAL (2) (\$) 0.00					fee (s	pecify	)				
	**or numbe	**or number previously paid, if greater, For Reissues, see above					y Bası	ic Filing	Fee Paid SUBTOTAL (3) (\$)	0.00		

SUBMITTED BY			/		Complete (if applicable)		
Name (Print/Type)	H. Samuel Frost			Registration No. (Attorney/Agent)	31,696	Telephone	(416) 364-7311
Signature	7	TVNV	_		•	Date	December 20, 2001

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